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[Path sharing and predicate evaluation for high-performance XML filtering](#)[\[PDF\] from psu.edu](#)

Y Diao, M Altinel, MJ Franklin... - ACM Transactions on ..., 2003 - portal.acm.org

... highly skewed, with a small number of very long candidate lists that do not provide much **selectivity**. ...As experimental results in Altinel and Franklin [2000] show, this additional **cost** is far outweighed ...

a document arrives at the filtering engine, it is run through an XML Parser that ...

[Cited by 265](#) - [Related articles](#) - [51 Direct](#) - [All 25 versions](#)[Efficient processing of XML twig queries with OR-predicates](#)[\[PDF\] from psu.edu](#)

H Jiang, H Lu... - Proceedings of the 2004 ACM SIGMOD ..., 2004 - portal.acm.org

... indexes can significantly improve the performance for matching twig queries with OR-predicates, especially when ... can evaluate query Q2 as two separate AND-twigs: /dblp/paper[title=**XML**]/author /dblp ... we may scan same data multiple times, incurring more I/O and CPU **cost**. ...[Cited by 79](#) - [Related articles](#) - [All 17 versions](#)[Implementing a scalable XML publish/subscribe system using relational database systems](#)[\[PDF\] from psu.edu](#)

F Tian, B Reinwald, H Pirahesh, T Mayr... - Proceedings of the ..., 2004 - portal.acm.org

... The **cost** analysis and several optimizations are introduced in Section 4. Experimental results are ... and middle columns are used to match tag paths in published XML messages against ...**predicates** of the conjunction are re-ordered so that the more **selective predicates** are pulled ...[Cited by 40](#) - [Related articles](#) - [All 16 versions](#)[Efficient filtering of XML documents for selective dissemination of information](#)[\[PDF\] from upenn.edu](#)

M Altinel... - ... of the 26th International Conference on ..., 2000 - seas.upenn.edu

... "[...]" denote filter expressions • Eg //product[price/msrp<300]/name • Selects name elements

of the XML document ... Problems? • Inefficient for many situations in an XML doc as the 1st element usually have poor **selectivity**. • Some CL will be very long as compared to ...[Cited by 610](#) - [Related articles](#) - [View as HTML](#) - [51 Direct](#) - [All 13 versions](#)[Cost-based optimization in DB2 XML](#)[\[PDF\] from psu.edu](#)

A Baimin, T Eliaz, J Hornbrook, L Lim... - IBM Systems ..., 2010 - ieee.xplore.ieee.org

... that might satisfy those **predicates**; that is, nodes satisfying the individual **predicates** must descend ...Fanout is used in conjunction with the traditional notion of **selectivity** in determining the ... Statistics collection" describes the set of statistics used to make XML **cost** and cardinality ...[Cited by 27](#) - [Related articles](#) - [All 10 versions](#)

Benefits of path summaries in an XML query optimizer supporting multiple access methods

A Barta, MP Consens... - Proceedings of the 31st ... , 2005 - portal.acm.org

... The advantage of using this strategy occurs in the case of **selective predicates** on one of the leaf ...
 However, in the XML query c summaries can be used not only existing schemas for a ... The latter
 optimization str data statistics and (simple) **cost**-based h order to compute an efficient ...

Cited by 31 - Related articles - BL Direct - All 5 versions

Timber: A native XML database

(PDF) from psu.edu

HV Jagadeish, S Al-Khalifa, A Chapman... - The VLDB journal, 2002 - Springer

... maintained for **cost** estimation purposes are novel, and are described in Sect ... For example, in
 a bibliographic XML tree, consider a particular book sub-tree, with nested (multiple) author sub ...
 We should be able to impose a **predicate** of our choice on the first author, on every author ...

Cited by 382 - Related articles - All 55 versions

Cost modeling and estimation for OLAP-XML federations

(PDF) from psu.edu

D Pedersen, K Riis... - Data Warehousing and Knowledge ... , 2002 - Springer

... The query evaluation time will depend eg on the aggregation level and **selectivity** of any selections
 in a query. ... The **cost** formula distinguishes between two types of XML query results: Those that
 have been inlined in some **predicate** and those that have not been inlined in ...

Cited by 11 - Related articles - BL Direct - All 5 versions

Approximate XML query answers

(PDF) from psu.edu

N Polyzotis, M Garofalakis... - Proceedings of the 2004 ... , 2004 - portal.acm.org

... Generating approximate answers is a **cost**-effective solution for offsetting the high evaluation
cost of XML queries. ... Note that the problem of effi- cient XML summarization also arises in the
 context of **selectivity** estimation, where the synopsis is only used to estimate the size ...

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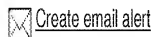
Stream processing of XPath queries with predicates

(PDF) from psu.edu

AK Gupta... - Proceedings of the 2003 ACM SIGMOD ... , 2003 - portal.acm.org

... to post on servers or to redistribute to lists, requires prior speci&c permission and/or a fee. ... limitation
 of this approach is that it requires direct access to the XML document: the ... evaluation order is
 decided by the optimizer (usually starting with the most **selective predicate**), and 419 ...

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